- DS0 level. These costs reflect the costs associated with the DS0 level facility, which comprises the Signaling Link.
- 3 D. LIDB, 800, AND AIN DATABASE QUERY
- 4 Q. Please describe the forward-looking construct used to develop the costs associated with the LIDB, 800, and AIN Query.
- 6 A. A representative model Intelligent Signaling Control Point ("ISCP") for 7 each database (800, LIDB, and AIN) was determined by reviewing the 8 actual 800, LIDB, and AIN databases. A forward-looking 9 representative ISCP for each database, based on the latest available 10 ISCP technology was designed. The forward-looking model office 11 was used as the basis for determining the investments associated 12 with each database query.
- Q. Please describe the cost methodology used in developing the 800,
 LIDB, and AIN query.
- 15 A. The cost methodology used in developing the 800, LIDB, and AIN query cost is consistent with the cost methodology described above.
- 17 Q. Did the Company deaverage the 800, LIDB, and AIN query by zone?
- 18 A. No. Since the signaling network will provide signaling of calls and
 19 data between two (or more) density zones, it would not be meaningful
 20 to develop deaveraged database queries.

- 1 Q. How were the material investments for the gueries developed?
- 2 A. The material investments for the queries were developed using
- 3 CCSCIS. The latest negotiated vendor discount was applied to the
- 4 material investment in CCSCIS.
- 5 E. 800, LIDB, AIN, AND CALL SET-UP TRANSPORT
- 6 Q. What technological assumptions underlie the 800, LIDB, AIN, and
- 7 Call Set-Up Transport cost study?
- 8 A. The signaling technology is the same as described above.
- 9 Q. How did Verizon MA develop the SS7 Transport costs?
- 10 A. All SS7 message investments were obtained from CCSCIS and reflect
- 11 the investment in SS7 links and STPs. The investments used in the
- study are a weighted average inclusive of all Massachusetts STPs
- and a weighted average of all A links, D links, and C links (up to the
- SCP for the particular service involved) for the entire state.
- 15 Q. Please describe the cost methodology used in developing the 800,
- 16 LIDB, AIN, and Call Set-Up transport.
- 17 A. The cost methodology used in developing the 800, LIDB, AIN, and
- 18 Call Set-Up transport cost is consistent with the cost methodology
- 19 described above.

1	Q.	Did the Company deaverage the 800, LIDB, AIN, and Call Set-Up
2		transport by zone?
3	A.	No. Since the signaling network will provide signaling of calls and
4		data between two (or more) density zones, it would not be meaningful
5		to develop deaveraged database queries.
6 7		F. AIN SERVICE MANAGEMENT SYSTEM AND AIN SERVICE CREATION
8	Q	What AIN cost studies are being presented here?
9	A.	Cost studies are presented for AIN Service Creation, and AIN Record
10		Provisioning. AIN Transport and query has been previously
11		presented under SS7 Transport cost studies in this testimony.
12	Q.	Please describe the AIN Service Creation model underlying Verizon
13		MA's cost study.
14	A.	Verizon MA's study is based on the assumption that carriers will
15		access the Service Creation Environment ("SCE") through the same
16		platform, ISCP SPACE™, that Verizon itself uses.
17	Q.	Please describe the costs components for AIN Service Creation.
18	A.	AIN Service Creation has the following cost components: Service
19		Establishment; Service Creation Access Port; Service Creation
20		Usage; Help Desk Support; Service Certification; and AIN ISCP
21		Record Provisioning.

PANEL TESTIMONY OF VERIZON - MASSACHUSETTS ON COSTS AND RATES FOR UNBUNDLED NETWORK ELEMENTS AND RELATED WHOLESALE SERVICES

1	Q.	Please describe Service Establishment and how the cost was
2		developed.
3	A.	Service Establishment cost reflects the labor required for the initial

5 Project Management organization. This cost element is a non-

establishment and set-up of an AIN SCE account by Verizon MA's

- 6 recurring cost and is developed in the non-recurring cost model
- 7 presented in the testimony of Mr. Meacham.
- Q. Please describe Service Creation Access Port and how the cost wasdeveloped.
- A. An AIN Service Creation Access Port gives the carrier access to the SCE through a dedicated access port. These costs include the costs associated with the access workstations, and related software right to use fees. The cost methodology is described in the study
- 14 documentation workpapers.

- Q. Please describe Service Creation Usage and how the cost wasdeveloped.
- A. Service Creation Usage is the cost associated with providing a carrier with access to the SCE facility, in twenty-four hour increments. This costing methodology is also described in the work papers.
- 20 Q. Please describe Help Desk Support and how the cost was developed.

1 A. Help Desk S	upport provides a carrier with a dedicated SCE
2 technician to	assist the carrier with any problems encountered
3 accessing the S	SCE. The cost is the hourly labor rate associated with
4 the SCE techn	ician that will provide this assistance multiplied by the
5 time required b	y the carrier, to be billed in 15-minute increments.
6 Q. Please descri	be Service Certification and how the cost was
7 developed.	
8 A. Service Certific	cation includes the cost of lab and field testing required
9 to certify the c	carrier's service before it can be deployed in Verizon
10 MA's ISCP. T	he testing ensures that the AIN service logic deployed
11 in the ISCP	can control network switches without creating
12 unanticipated	and harmful interactions with other network services
13 and functions.	Certification is required of all AIN services created by
14 Verizon MA a	s well. It includes lab testing of the service logic,
15 followed by act	ual field trials in the network.
16 The cost comp	oonents of Service Certification consist of a weighted
17 mix of labor ra	ates for the job functions listed above as well as the
18 labor rate asso	ciated with management of the project. This weighted
19 labor rate mult	iplied by the time required to certify the particular AIN
20 service would t	then be billed to the carrier in 15-minute increments.

1	Q.	Please describe ISCP Record Provisioning and how the cost was
2		developed.
3	A.	ISCP Record Provisioning is the labor associated with the creation
4		and/or modification of AIN ISCP Records. The cost is the product of
5		the hourly labor rate of the technician who will be performing this job
6		function and the time necessary to perform that function (dependent
7		on the size and number of records), to be billed in 15-minute
8		increments.
9		
10	XI.	ELEMENT COMBINATIONS
11		A. REGULATORY BACKGROUND
12	Q.	Does Verizon MA provide elements in combined form?
13	A.	Yes. Incumbents are required to provide certain combinations by
14		FCC Rule 315. Verizon MA currently provides network element
15		combinations as required by the FCC under D.T.E. – Mass. – No. 17.
16		B. RECURRING CHARGES FOR COMBINATIONS: IN GENERAL
17	Q.	What is the recurring charge for an element combination.
18	A.	In general, the recurring charges for element combinations are the
18 19	A.	In general, the recurring charges for element combinations are the sum of the recurring charges for the constituent elements. In some

1		C. THE EEL TESTING CHARGE
2	Q.	What is the "EEL Testing Charge"?
3	A.	The EEL Connection Charge is a charge proposed by Verizon MA to
4		recover the costs associated with testing EEL arrangements. (EEL is
5		a combination of loops with IOF, together with multiplexing where
6		required.)
7		In the local loop studies being presented in this filing, subscriber
8		trouble testing expense is excluded from the expense base on which
9		the Company's ACFs are based. The exclusion of subscriber trouble
10		testing expense reflects the assumption that in the forward-looking
11		environment, the CLEC purchasing a loop will perform the subscriber
12		trouble testing function itself.
13		Currently, a CLEC purchasing EEL is not able to perform the testing
14		necessary to isolate troubles to the loop (i.e., "sectionalization"),
15		since such testing would require the use of equipment in the central
16		office serving that loop. Accordingly, Verizon MA is currently
17		responsible for subscriber trouble testing for EEL arrangements, and
18		it is appropriate to include the relevant expense in the EEL cost.
19	Q.	How has the testing charge been determined?

PANEL TESTIMONY OF VERIZON - MASSACHUSETTS ON COSTS AND RATES FOR UNBUNDLED NETWORK ELEMENTS AND RELATED WHOLESALE SERVICES

A. An EEL Testing expense factor has been developed which when applied to the investment in the underlying loop component of the EEL arrangement yields the relevant bases of costs. Ordinarily these costs would be divided by twelve and multiplied by common overhead and gross revenue loading factors in order to develop the monthly costs for testing. However, in an earlier decision³⁸ the Department ruled that EEL testing costs should be recovered as a per-transaction charge. The Company converted the monthly costs to transaction-based costs using the same methodology we followed when the compliance studies were filed in the earlier proceeding.

11 Q. How was the EEL Testing factor developed?

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Testing incurred by Verizon MA in 1999. Next an adjustment was made to remove testing expenses that are for non-regulated portions of the network. In addition, the circuit investments and annual costs associated with the testing equipment needed to test the network have been identified previously in developing the UNE network ACFs.

³⁸ D.T.E 98-57, Order Dated March 24, 2000 at 112.

PANEL TESTIMONY OF VERIZON - MASSACHUSETTS ON COSTS AND RATES FOR UNBUNDLED NETWORK **ELEMENTS AND RELATED WHOLESALE SERVICES**

1 A pro rata portion of these costs are picked up with the same 2 relationship as with the subscriber trouble testing expenses to be 3 used in EELS. The resultant amounts are then combined and spread 4 over the outside plant investment accounts to derive the basis of the 5 forward - looking estimation of testing that will be required for EEL 6 arrangements.

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XII. **MISCELLANEOUS SERVICES**

9 Α. **DAILY USAGE FILE**

- 10 Q. Please explain the Daily Usage File ("DUF") service.
- 11 Α. This service provides resellers and UNE purchasers with detailed
- 12 usage information. It consists of the processing and transmission of
- 13 call records.
- 14 Q. How were the processing costs for DUF developed?
- 15 Α. Costs were developed for Recording Processing, Data Transmission,
- 16 and Tape or Carriage. The costs include the computer processing
- 17 usage time, computer termination maintenance, salary and wages of
- 18 personnel handling the data transmission functions, software
- 19 maintenance, and disk maintenance.

PANEL TESTIMONY OF VERIZON - MASSACHUSETTS ON COSTS AND RATES FOR UNBUNDLED NETWORK ELEMENTS AND RELATED WHOLESALE SERVICES

In the Phase 4-O Order in the Consolidated Arbitrations³⁹. the 1 Q. Department rejected Verizon MA's DUF⁴⁰ costs. Please address the 2 3 Department's criticisms in that proceeding. 4 Α. The Department found that the Company was already being 5 compensated for forward-looking computer-related costs in its UNE 6 rates. Therefore, the Department ruled that allowing cost recovery 7 through a separate rate element would result in a double recovery. In 8 this filing, Verizon MA addresses any potential double recovery of 9 OSS costs through an explicit adjustment to the ACFs as described 10 above. 11 In the Consolidated Arbitrations, the Department also found that 12 certain OSS-related investments were overstated. In this filing, the 13 DUF study is based on more current data than that provided in the 14 Consolidated Arbitrations.

D.T.E. 96-73/74, 96-75, 96-80/81, 96-83, 96-94 — Phase 4-O, Order On Motions For Reconsideration Of MCI WorldCom, Inc. And Motion For Reconsideration And Clarification Of Bell Atlantic-Massachusetts, January 10, 2000.

In the Consolidated Arbitrations, DUF was known as Customer Usage Detail Service ("CUDS").

1		B. CUSTOMIZED ROUTING
2	Q.	Please describe the Customized Routing of OS/DA for resale.
3	A.	Customized Routing, as the term is used in this testimony, provides a
4		reseller with the ability to route local OS/DA calls from a resold line to
5		an Alternative Operator Service Provider ("AOSP"), i.e., to an
6		operator
7		service provider other than Verizon MA.
8	Q.	What is the long-term view of how this service will be provided?
9	A.	The long-term view for this service is to make use of Advanced
10		Intelligent Network (AIN) technology. Using an AIN switch "trigger",
11		Verizon's switch providing the CLEC's end user dial-tone, will launch
12		a query to an SCP, which will provide the instructions on how to route
13		the call, which trunk group to select specific to the originating line,
14		traffic type of the specific call, and destination of the call.
15	Q.	What assumptions were made with respect to other elements or
16		services that the reseller must provide?
17	A.	Customized Routing of OS/DA for Resale requires the reseller to
18		purchase direct trunks in order for the routed calls to be directed to
19		the designated trunk group, and transported to the AOSP that will
20		handle OS/DA for the reseller. These trunk facilities must be either

1		purchased from the Company, or otherwise provided for by the
2		reseller.
3	Q.	What costs are involved in this service?
4	A.	There are two types of costs that are involved with this service: non-
5		recurring establishment and SS7 costs (including AIN Transport and
6		Query). The non-recurring costs are addressed Mr. Meacham's
7		testimony.
8	Q.	How were the recurring costs calculated in the study?
9	A.	First, the average number of OS/DA calls per month for these calls for
0		all lines were identified. Each one of these "re-routed" calls needs to
1		launch an AIN query for routing instructions. The average number of
2		OS/DA calls was multiplied by the cost for the Customized Routing
13		AIN Query and AIN Transport to establish the SS7 costs per line per
14		month.
15	Q.	Does this conclude the Panel's testimony?
16	A.	Yes.



Investigation by the Department on its own	§	
Motion into the Appropriate Pricing, based	§	
upon Total Element Long-Run Incremental	§	
Costs, for Unbundled Network Elements and	§	D. T. E. 01-20
Combinations of Unbundled Network Elements,	§	
and the Appropriate Avoided Cost Discount	§	
for Verizon New England Inc. d/b/a Verizon	§	
Massachusetts' Resale Services	§	

DIRECT TESTIMONY OF ALLEN E. SOVEREIGN ON BEHALF OF VERIZON NEW ENGLAND INC. D/B/A VERIZON MASSACHUSETTS

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I. INTRODUCTION

- 2 Q. Please state your name, address and present background.
- 3 A. My name is Allen E. Sovereign. My business address is 1420 East Rochelle
- Blvd., Irving, Texas 75039. I am employed by Verizon as Group
- 5 Manager-Capital Recovery.
- 6 Q. Please describe your education and work experience.
- 7 A. I received a Bachelor of Science Degree in Electrical Engineering from
- 8 Michigan Technological University, Houghton, Michigan, in 1971. I received
- 9 a Master of Science Degree in Business Administration from Indiana
- 10 University, Bloomington, Indiana, in 1980. I have attended courses in
- depreciation and life analysis provided by Depreciation Programs, Inc., of
- 12 Kalamazoo, Michigan. I have also attended and instructed basic and advanced
- GTE courses in depreciation life analysis. I am a Senior Member of the
- 14 Society of Depreciation Professionals.
- I have worked for Verizon for over 25 years, with 18 of those years in the
- depreciation study area. I have held various positions in Engineering and
- 17 Construction, Capital Budgeting, Marketing, and Product Development. I was named
- to my current position in February 1994.
- 19 Q. What are the responsibilities of your current position?
- 20 A. I am responsible for the preparation, filing and resolution of capital recovery studies
- and the determination of economic lives for Verizon.

- 1 Q. Have you previously testified before any other regulatory agencies?
- 2 A. Yes, I have testified on capital recovery issues before state utility commissions in
- 3 South Carolina, Texas, New Mexico, Arkansas, California, Washington, Idaho,
- 4 Illinois, Indiana, Nebraska, Pennsylvania, Michigan, Virginia, Kentucky, Nevada,
- 5 Iowa, and Hawaii.
- 6 Q. What is the purpose of your Direct Testimony?
- 7 A. The purpose of my testimony is to recommend and support depreciation lives and
- 8 future net salvages used in the cost studies to calculate Unbundled Service Network
- 9 Element ("UNE") rates for Verizon Massachusetts ("Verizon MA").
- 10 Q. What depreciation inputs did Verizon use in the cost studies it submitted in this
- 11 proceeding?
- 12 A. Verizon used the forward-looking economic lives and future net salvage values that
- it used in its financial reporting for 1999, and which I recommend in this testimony.
- 14 These are the same depreciation parameters that Verizon used for its 1999 financial
- reporting to its shareholders. A complete list of Verizon's proposed depreciation
- lives and future net salvage percentages is attached to my testimony as Exhibit AES-1.
- 17 Q. Please summarize your direct testimony.
- 18 A. The Massachusetts Department of Telecommunications and Energy ("Department")
- should approve the economic depreciation inputs Verizon used in its cost studies.
- 20 Like the cost study methodology prescribed for use in this proceeding, Verizon's
- 21 depreciation inputs are forward-looking. This forward-looking approach produces

1	more accurate estimate of assets' economic lives than an outdated, history	ical
2	approach.	

When all local exchange companies were monopoly providers, regulators could defer capital recovery without affecting the ability of the regulated company to recover its investments. With the advent of local competition, regulators no longer have the luxury of postponing capital recovery in the rate-setting process. The changing telecommunications environment must be taken into consideration when determining the proper recovery period of an asset. The methodology described in my testimony considers these developments.

10 II. ECONOMIC LIVES MUST BE USED IN FORWARD-LOOKING COST STUDIES

- Q. Are the depreciation rates established by the Federal Communications Commission ("FCC") appropriate for determining the costs of UNEs?
- A. No. The FCC's prescribed depreciation parameters are appropriate only for regulatory reporting purposes. This UNE docket requires forward-looking economic depreciation inputs. The FCC-prescribed depreciation inputs were developed for regulatory reporting purposes to recover both past embedded plant investment and newly placed plant investment. Verizon uses economic parameters for its reports to stockholders.
- 20 Q. Are you familiar with the Department's Phase 4 decision in the Consolidated

- 1 Arbitrations, where based on the record, the Department adopted the FCC lives in the
- 2 most recent FCC prescription for use in the TELRIC studies?
- 3 A. Yes.

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environment.

- 4 Q. Do you agree with the conclusion that these lives are forward looking and appropriate
- 5 for inputs in determining the costs of UNEs?
- 6 A. No. These lives are not appropriate for use as inputs in determining the costs of 7 UNEs. Depreciation practitioners have not used traditional historical depreciation 8 analysis to determine the depreciation life parameter for several years. The FCC 9 claims that its lives consider technological change and competition, however, its 10 analysis underestimates the impact of these factors. The lives used by Verizon for 11 financial reporting more accurately reflect that these relevant factors. The table below 12 compares the lives from the Department's Phase 4 Order with the lives Verizon used 13 in the cost model and the lives Verizon is using for financial reporting. The lives used 14 in the cost model were in effect for financial reporting in 1999, whereas the lives used 15 for financial reporting were revised in 2001 to more accurately reflect the competitive

Projection Lives (Years)

2 3 4	Account	Verizon Financial Reporting	Verizon Proposed	DTE Ordered
5	ESS Digital	10	10	15
7	Circuit Equipment	9	9	11
8	Aerial Cable Metallic	16	18	22
9	Underground Ca Metal	16	18	25
10	Buried Cable Metallic	16	18	23
11	Fiber Cable	20	20	25

- 12 Q. Please define the term "economic life" and how it relates to the cost studies.
- 13 A. "Economic life" is defined as the period of time over which an asset is used to provide
 14 economic value. Verizon's proposed depreciation parameters consider the decline in
 15 an asset's value from all causes, including competition and technological change. The
 16 parameters reflect the principle that depreciation should be consistent with forward17 looking economic assumptions and based on competitive market asset lives.
- 18 Q. What are "FCC-prescribed depreciation lives"?
- 19 A. These are the lives set for regulatory accounting purposes.
- 20 Q. Does the Department prescribe depreciation parameters for Verizon?
- A. No. In the Price Cap Plan adopted by the Department in May 1995, in D.T.E. 94-50,

- the Department ruled that Verizon MA should have the flexibility to adjust its own
 depreciation parameters provided that the Company used depreciation lives that did
 not exceed those prescribed by the FCC in its most recent triennial represcription.
 Since that decision, the Company has used depreciation parameters that are consistent
 with, or shorter than the lives approved for Verizon in the FCC's 1996 represcription
 for both intrastate regulatory reporting, and financial reporting purposes.
- Q. Is an asset's economic life equal to the depreciation life of that asset as prescribed by
 state commissions or the FCC?
- 9 A. No. Economic lives are generally shorter than prescribed asset lives.
- 10 Q. Why are economic lives shorter than prescribed lives?

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- 11 A. Historically, regulatory commissions prescribed asset lives under the assumption that
 12 there would be little or no competition and that technological innovation would
 13 continue at its traditional pace. The Telecommunications Act of 1996 ("Act") is
 14 intended to spur a new competitive environment that invalidates that basic
 15 assumption.
 - As previously discussed, the economic life of an asset is the period of time over which that asset is used to provide economic value. Both increased competition and technological change shorten the period over which an asset will provide economic value. In a world where Verizon was the sole provider, depreciation rates were based upon artificially long asset lives. By basing depreciation rates on long asset lives, the

depreciation rates were lower, and the period over which the asset was depreciated was longer. These longer depreciation lives helped regulatory agencies keep consumer prices artificially low. Today's current market environment reduces the length of time over which Verizon can recover its investment in an asset and renders unsustainable the use of artificially long asset lives in calculating depreciation rates. When estimating economic lives, is it possible to use traditional life estimation techniques?

Q.

A.

No. Traditional life estimation techniques are used to predict an asset's physical life, but not its economic life. The physical life of an asset ends upon that asset's retirement. Economic lives, however, can be affected when no retirements are evident. For example, assume Verizon has a 1,200 pair cable that has been used to provide service to 1,000 customers in the pre-Act single-provider environment. Next, assume that in the post-Act industry, only 500 pairs of the 1,200 pair cable are being used (i.e., providing service to customers and economic value to Verizon) as a result of 500 customers leaving for competitors' networks. Retirement-based analysis (i.e., the traditional physical life estimation technique) assumes that all plant in service has economic life. However, under this scenario, only 50 percent of the originally utilized investment actually have economic life. The economic life of the asset is severely affected by competition, but there are no associated retirements of the asset.

1 2	III.	COMPETITION AND TECHNOLOGICAL INNOVATION REQUIRE THE USE OF ECONOMIC LIVES
3	Q.	What factors should the Department consider in approving depreciation inputs for
4		determining UNE costs?
5	A.	The two most important factors that must be considered in establishing the economic
6		value of Verizon's assets are: (1) technological innovation and (2) the impact of
7		competition.
8	Q.	What technological innovations did you consider in establishing Verizon's economic
9		lives?
10	A.	Competitive carriers are utilizing a number of alternative technologies to provide
11		telecommunications service that completely bypass the Incumbent Local Exchange
12		Carrier's (ILEC) existing wireline network. These technologies include wireless local
13		loops, cable television lines, and electric lines. Prior to the passage of the Act,
14		depreciation analysis consisted primarily of mortality analysis with only slight
15		adjustments for technological change. Now, the rapid pace of advancement in
16		technological innovations must be recognized in establishing the economic value of
17		Verizon's assets.
18	Q.	What competitive developments did you consider in establishing Verizon's economic
19		lives?
20	A.	Competitor's in Massachusetts are providing service to both residential and business
21		customers across the state using each of the three modes of competitive entry

provided for in the 1996 Act – interconnection, access to UNEs, and resale. The extent of competition in the Massachusetts telecommunications marketplace is widespread, and carriers are active throughout the state. There are hundreds of carriers offering telecommunications services across Massachusetts. These include interexchange and other "toll" carriers, pay phone providers, competitive access providers, cable companies, Resellers, competitive local exchange companies ("CLECs"), data CLECs, and microwave providers. Some offer complete packages of voice, data and Internet services, while others provide service in particular segments such as data, and are principally focusing at this time on providing DSL, Frame Relay and point-to-point services. Using all three entry modes envisioned by the Act, carriers are offering a range of services, and the evidence of competition in Massachusetts is compelling. I am informed that in every Verizon MA central office in the state at least two of the three modes of entry are employed by carriers to serve customers, and in 88 percent of the central offices, all three modes of entry are currently employed. Companies, such as AT&T and WorldCom are spending billions of dollars to bypass the ILECs' networks nationwide. In this regard, AT&T has undertaken an approach of buying cable television companies. It has publicly declared that it will offer local phone service via cable TV wires, either on its own or in partnership with others, and via fixed wireless technology. For example, in Massachusetts, AT&T Broadband

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currently provides cable television service in municipalities whose principal serving central office contains over 86 percent of Verizon MA's business lines and 80 percent of its residence lines. AT&T Broadband is now providing its Digital Telephone Service in municipalities that contain approximately 40 percent of Verizon MA's business lines and over 37 percent of Verizon MA's total lines. Even where AT&T does not have wireline facilities, it is pursuing a bypass strategy. This is highlighted in the following quote from a recent AT&T Internet website article, dated May 18th, 2000, entitled "Angel Takes Flight." "By eliminating the copper-wire connection necessary for land-line communications, fixed wireless literally cuts the cord between the traditional central office or switching center and a consumer's home." This same article illustrates the linkage of the extensive cable network purchased over the last months with the fixed wireless technology: "The goal is to bring fixed wireless service everywhere AT&T Cable Services is not." WorldCom is also investing in its own fixed wireless technology to bypass the LEC network. Other fixed wireless companies, such as Winstar and Teligent, are currently offering a fixed wireless alternative to local landline service in Massachusetts. Since these companies are obviously pursuing a bypass strategy, and since they cannot build facilities to supply the entire market immediately, it is logical that they would only want to purchase UNEs from the ILECs on an interim basis. It follows, then, that the economic life of the ILEC's facilities will be seriously diminished. If the

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